

## **FIRE DOOR LOCK MECHANISM**

### **ABSTRACT**

A fire door lock mechanism is provided, allowing a user to directly push and press a handlebar forwards to activate a lock bolt and open a fire door mounted with the lock mechanism in a comfortable manner. A first opening unit of the lock mechanism is located inside the fire door to operate the lock bolt. The handlebar is located in a second opening unit of the lock mechanism on the fire door. The handlebar, being pressed, activates a link arm connected thereto and accordingly induces a swing arm coupled to the link arm to generate a swing motion, so as to allow a pulley formed at one end of the swing arm to extend into the first opening unit and drive a lock bolt mount connected to the lock bolt to move horizontally, thereby making the lock bolt retract to release the lock mechanism.

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